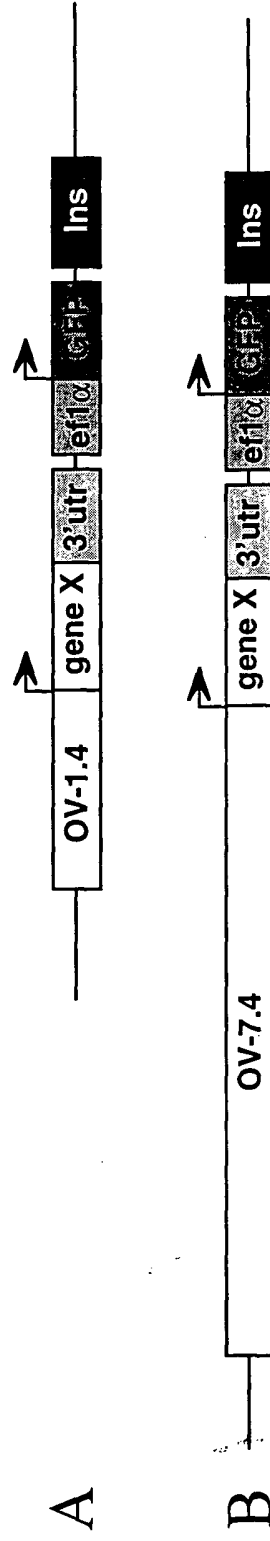


Figure 1.



OV-1.4 & -7.4: ovalbumin -1.4 and -7.4 kb promoters

gene X: a gene or cDNA encoding an exogenous protein

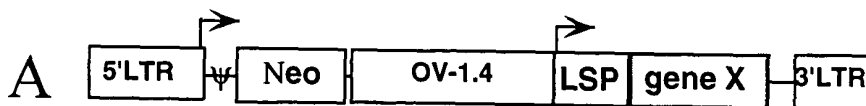
3'utr: 3' untranslated region containing polyadenylation site

ef-1α: translation elongation factor ef-1α promoter

GFP: humanized green fluorescent protein gene

Ins: 1.2 kb insulator element

Figure 2.



➤ transcription start site

5' & 3' LTR: ALV long terminal repeats

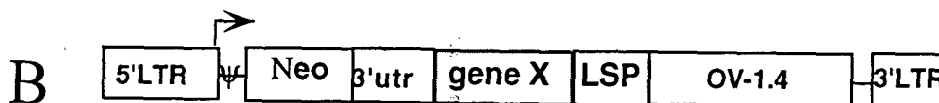
Ψ virus packaging signal

Neo: neomycin-resistance gene

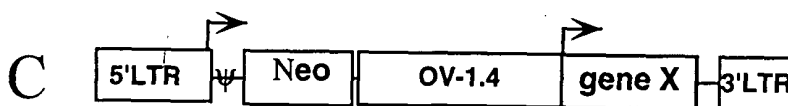
OV-1.4: ovalbumin -1.4 kb promoter

LSP: lysozyme signal peptide

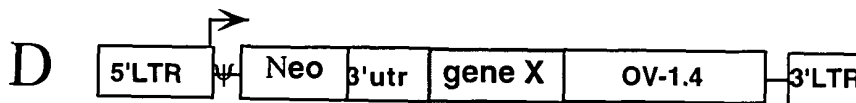
gene X: gene or cDNA encoding an exogenous protein



3'utr: 3' untranslated region containing polyadenylation site

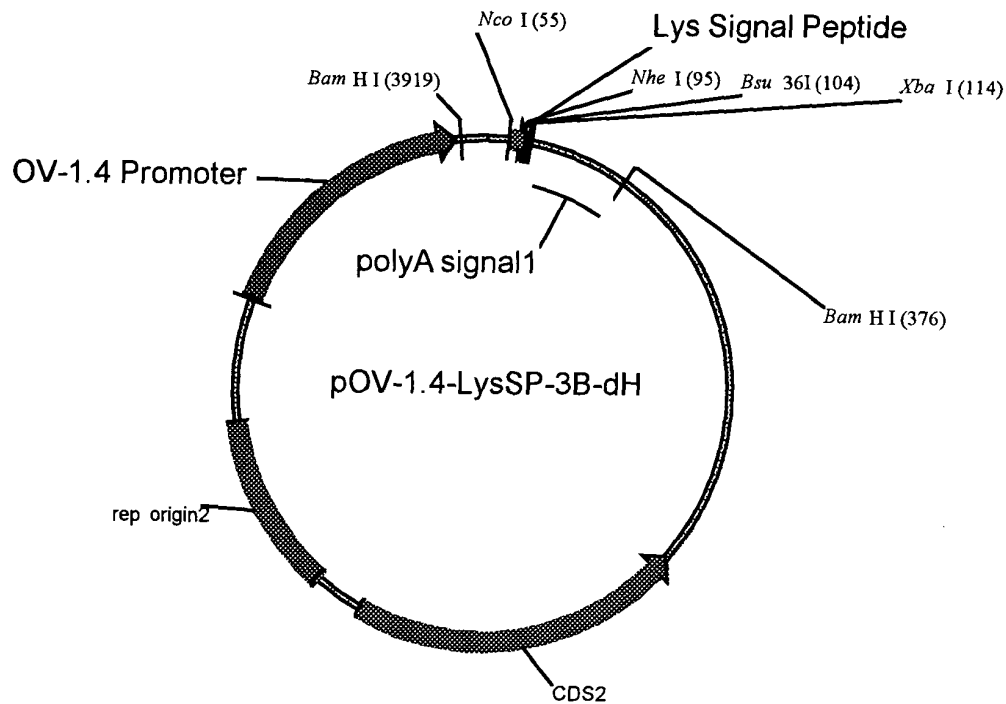


Same vector as A lacking LSP element



Same vector as B lacking LSP element

Figure 2E.



Lysozyme Signal Peptide

	M	G	S	L	L	I	L	V	L	C	F	L	P	L	A
	NcoI						NheI								
51	CCACCATGGG	GTCTTTGCTA	ATCTTGGTGC	TTTGCTTCCT	GCCGCTAGCT										
	GGTGGTACCC	CAGAAACGAT	TAGAACCACG	AAACGAAGGA	CGGCGATCGA										
	A	L	G												
	Bsu36I						XbaI								
101	GCCTTAGGGC	CCTCTAGAG													
	CGGAATCCCG	GGAGATCTC													

▼ : Signal peptide cleavage site.

PCR Cloning of cDNA

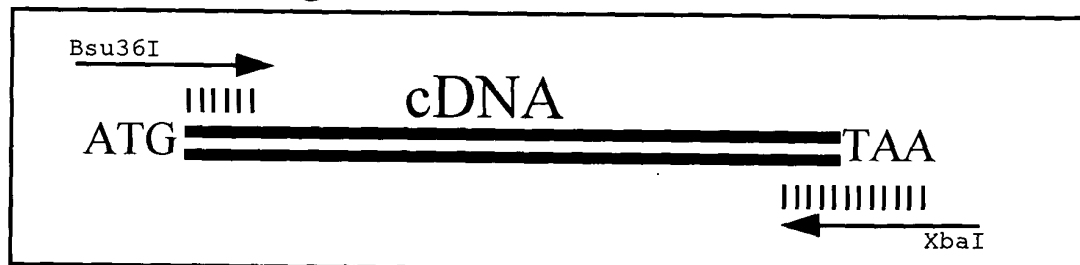


Figure 2F.



➤ transcription start site

5' & 3' LTR: ALV long terminal repeats

Ψ virus packaging signal

Neo: neomycin-resistance gene

OV-1.4: ovalbumin -1.4 kb promoter

LSP: lysozyme signal peptide

gene X: gene or cDNA encoding an exogenous protein

gene Y: gene or cDNA encoding an exogenous protein

IRES: internal ribosome entry site

Figure 3.

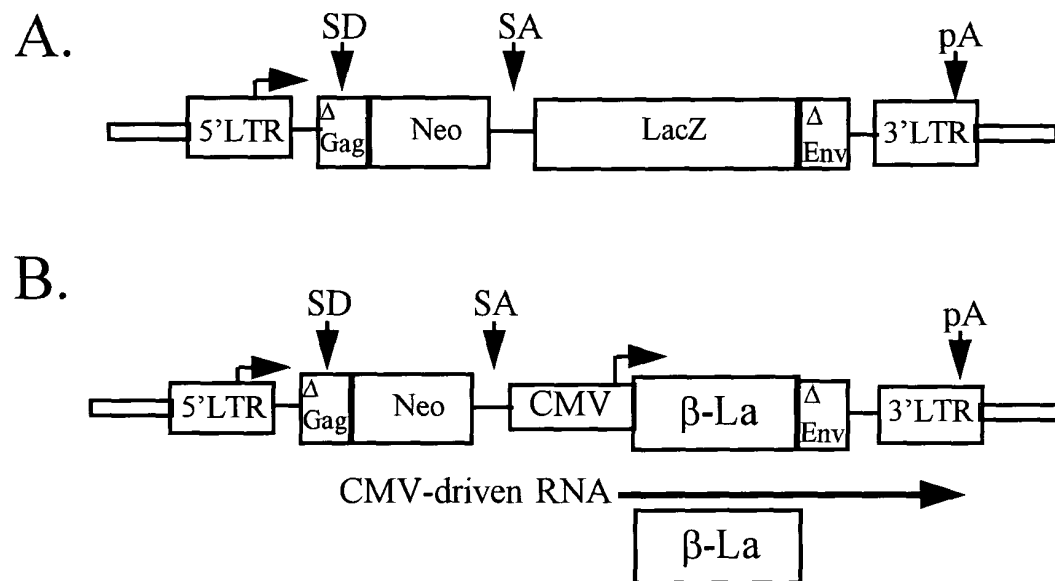


Figure 4.

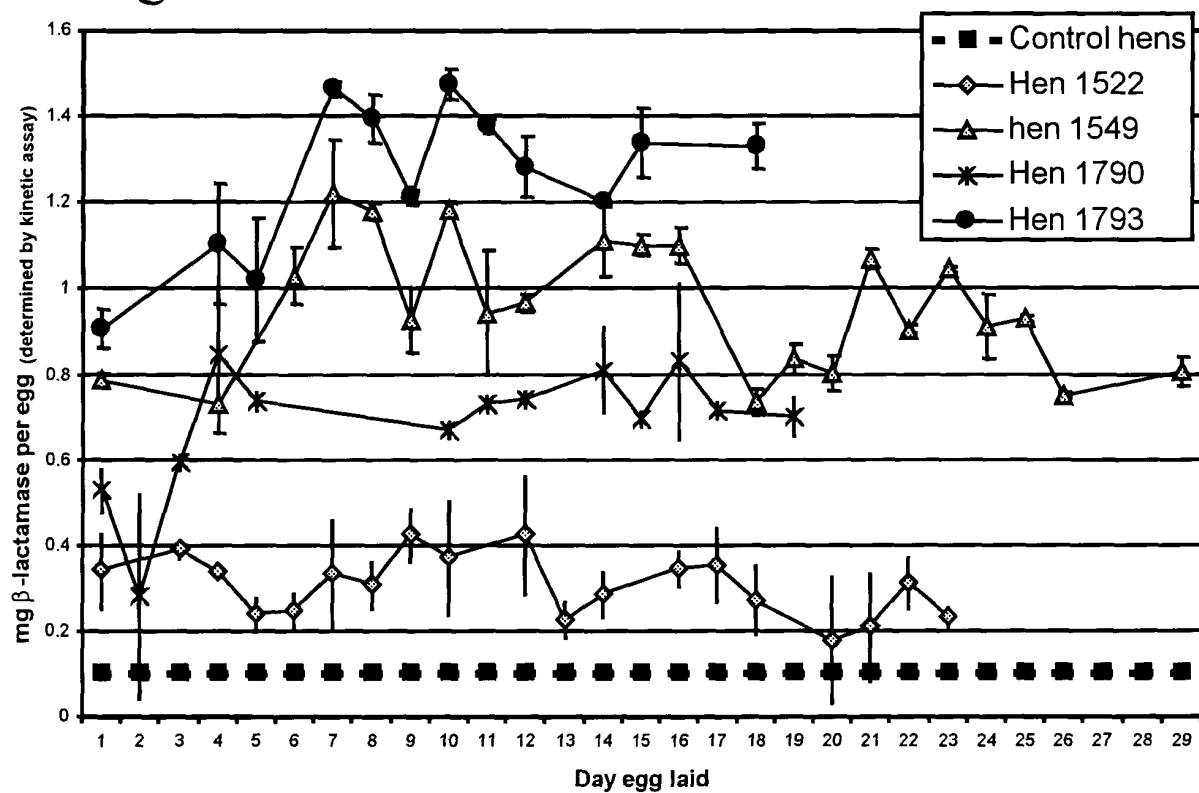


Figure 5.

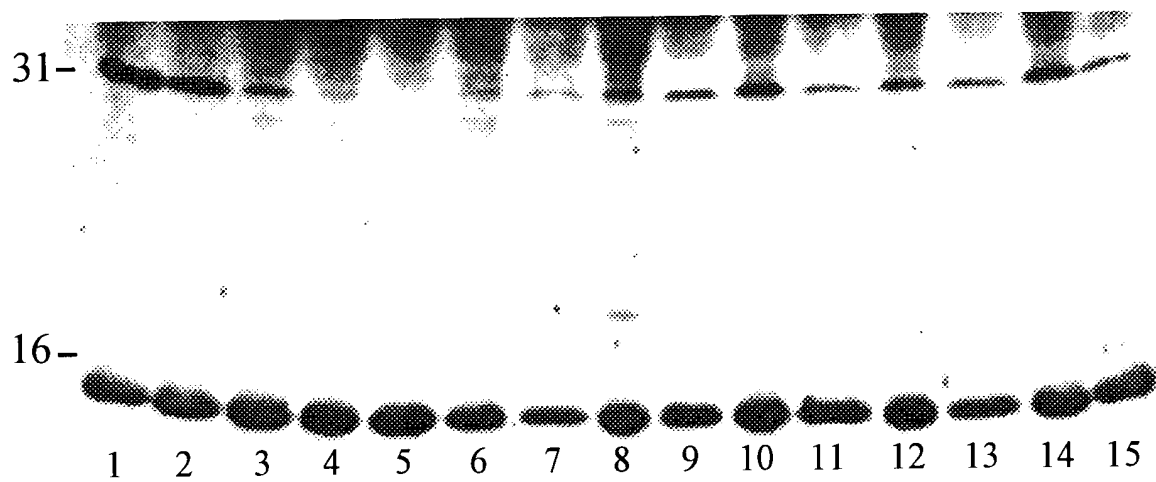
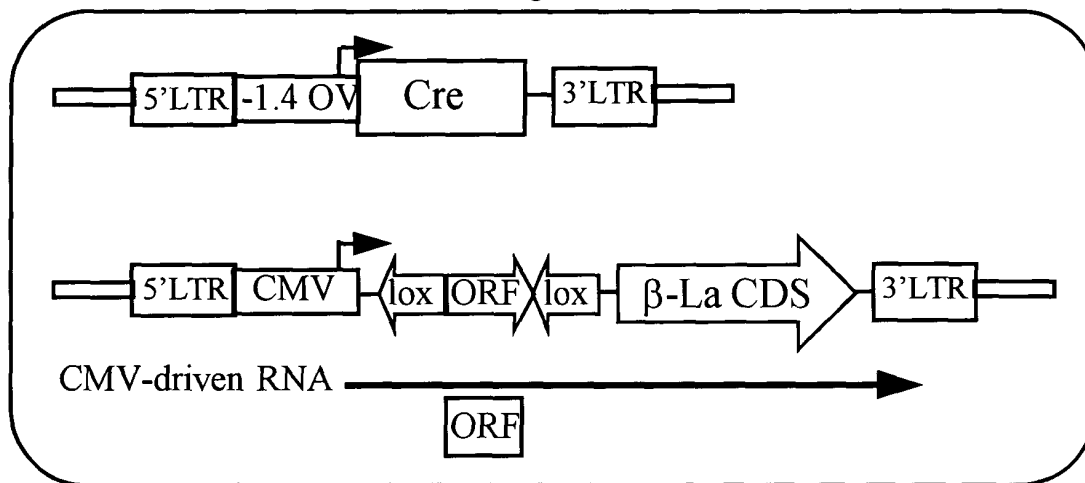


Figure 6.

A.

Non-magnum cell.



B.

Magnum cell.

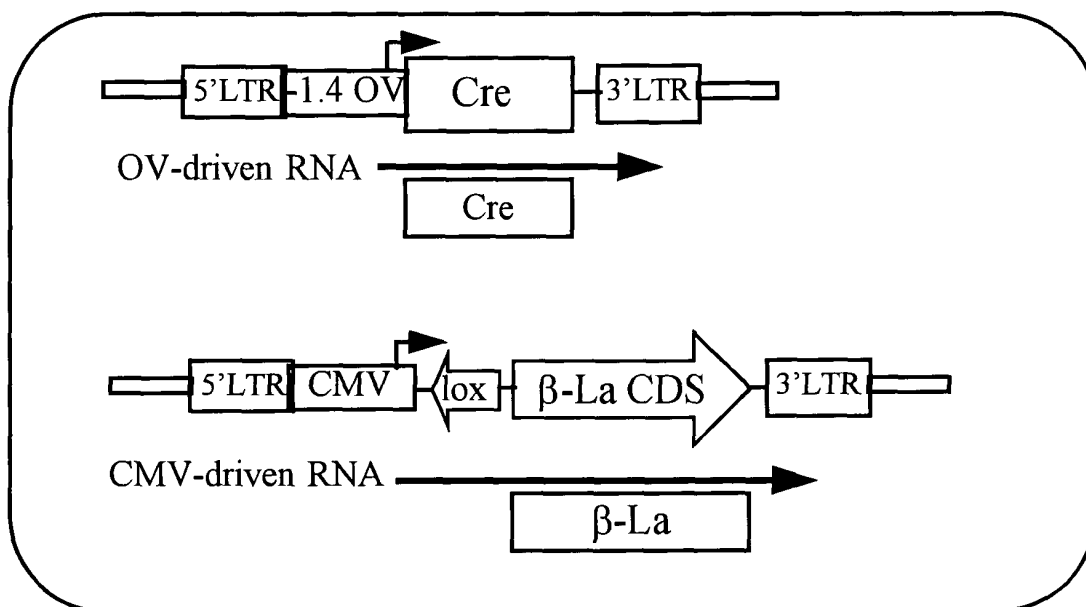


Figure 7.

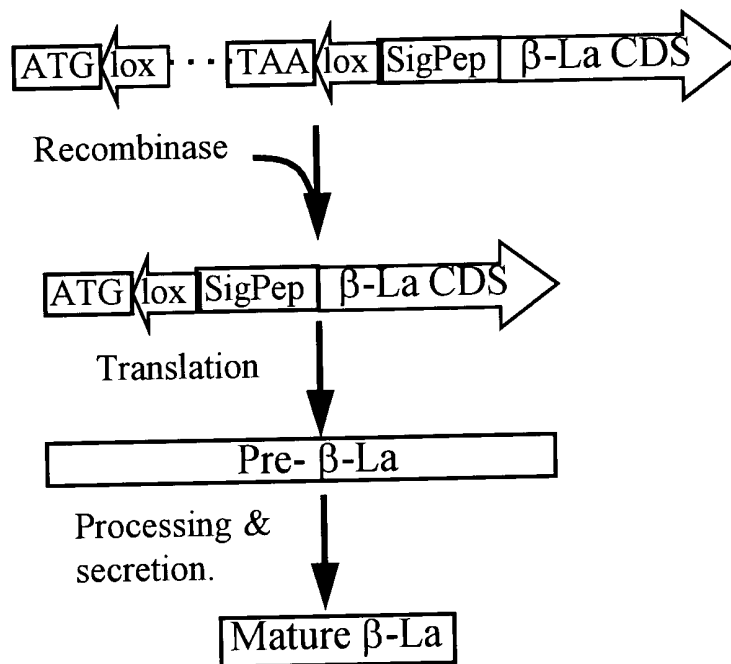


Figure 8A.

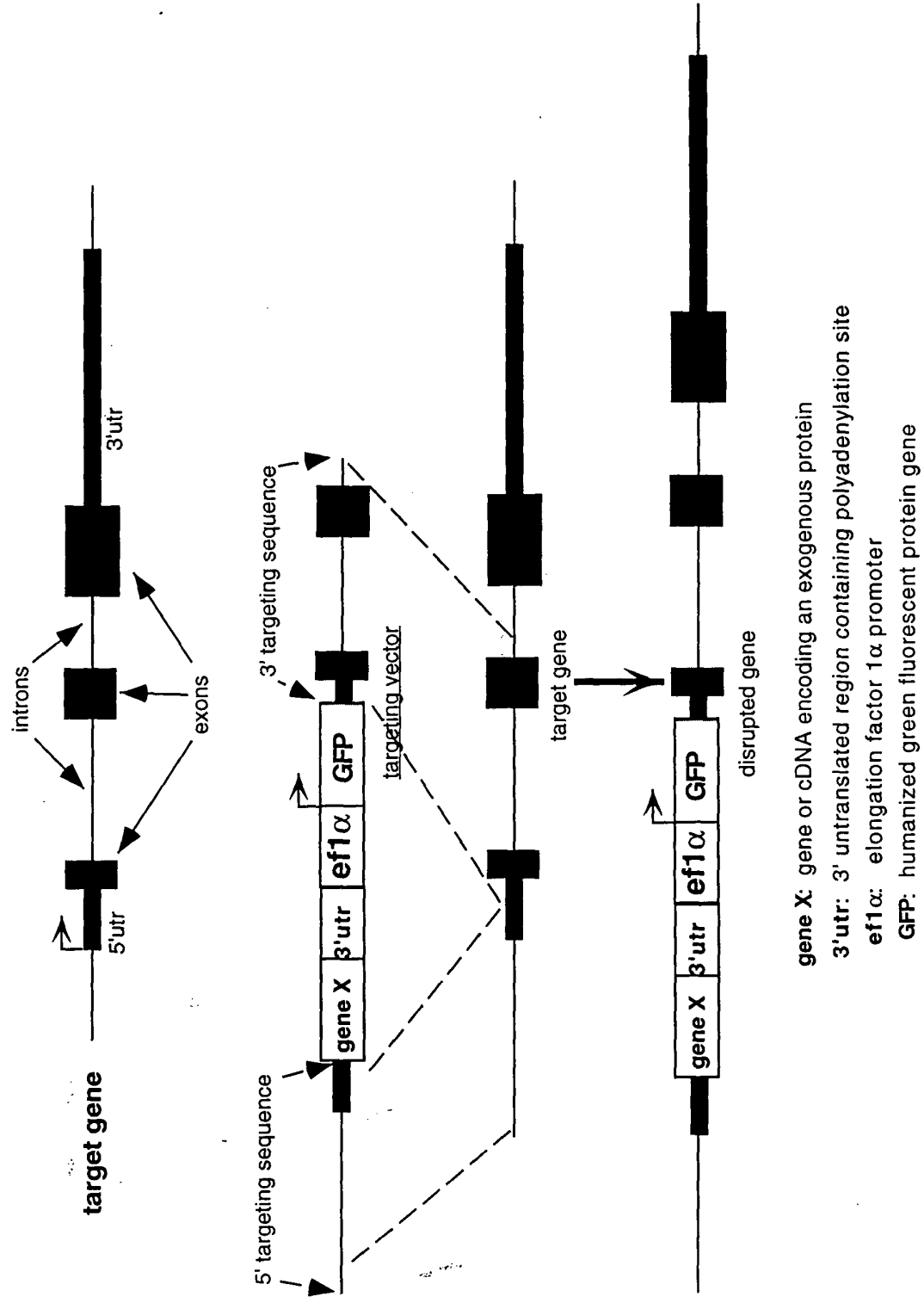


Figure 8B.

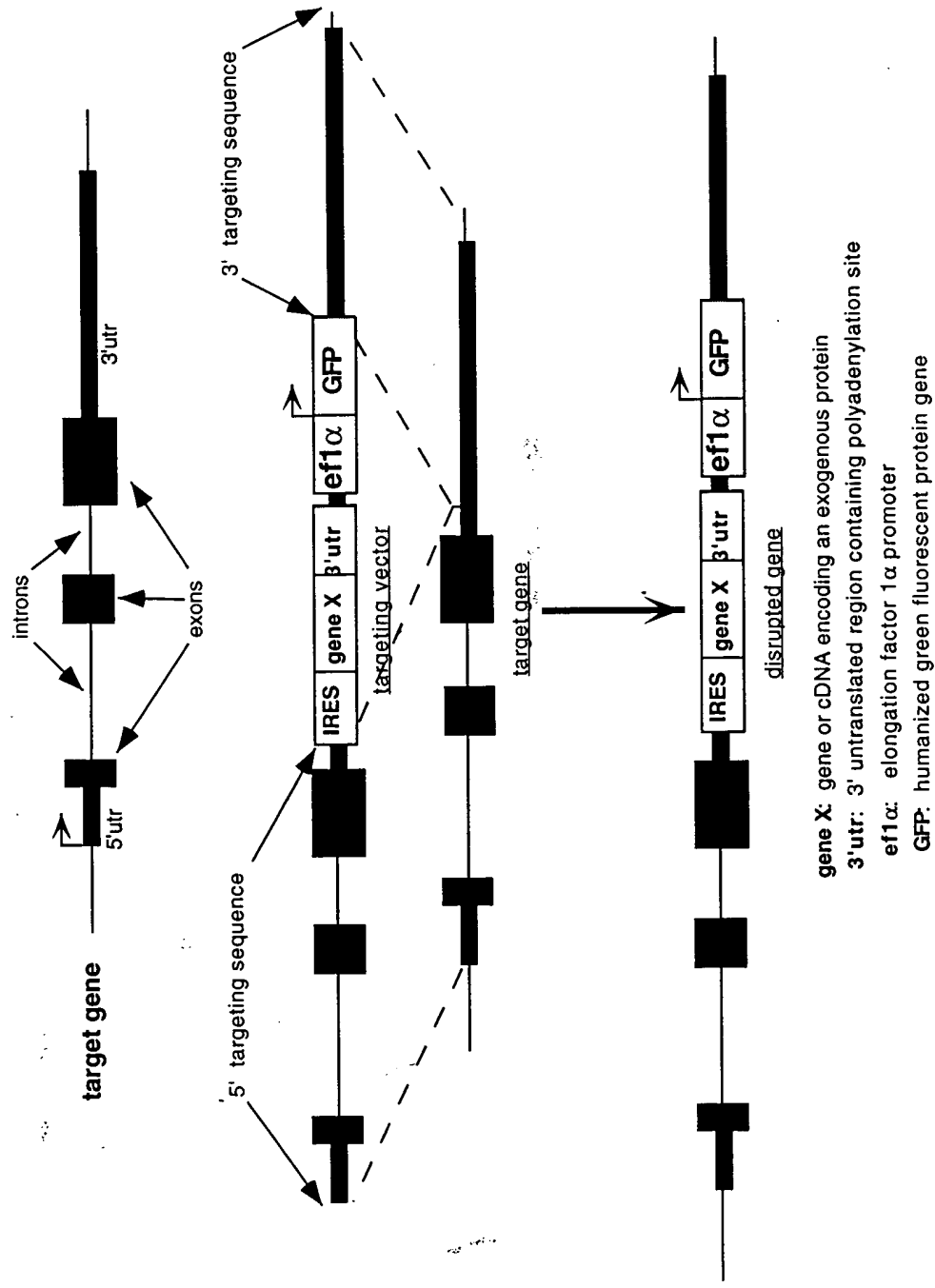
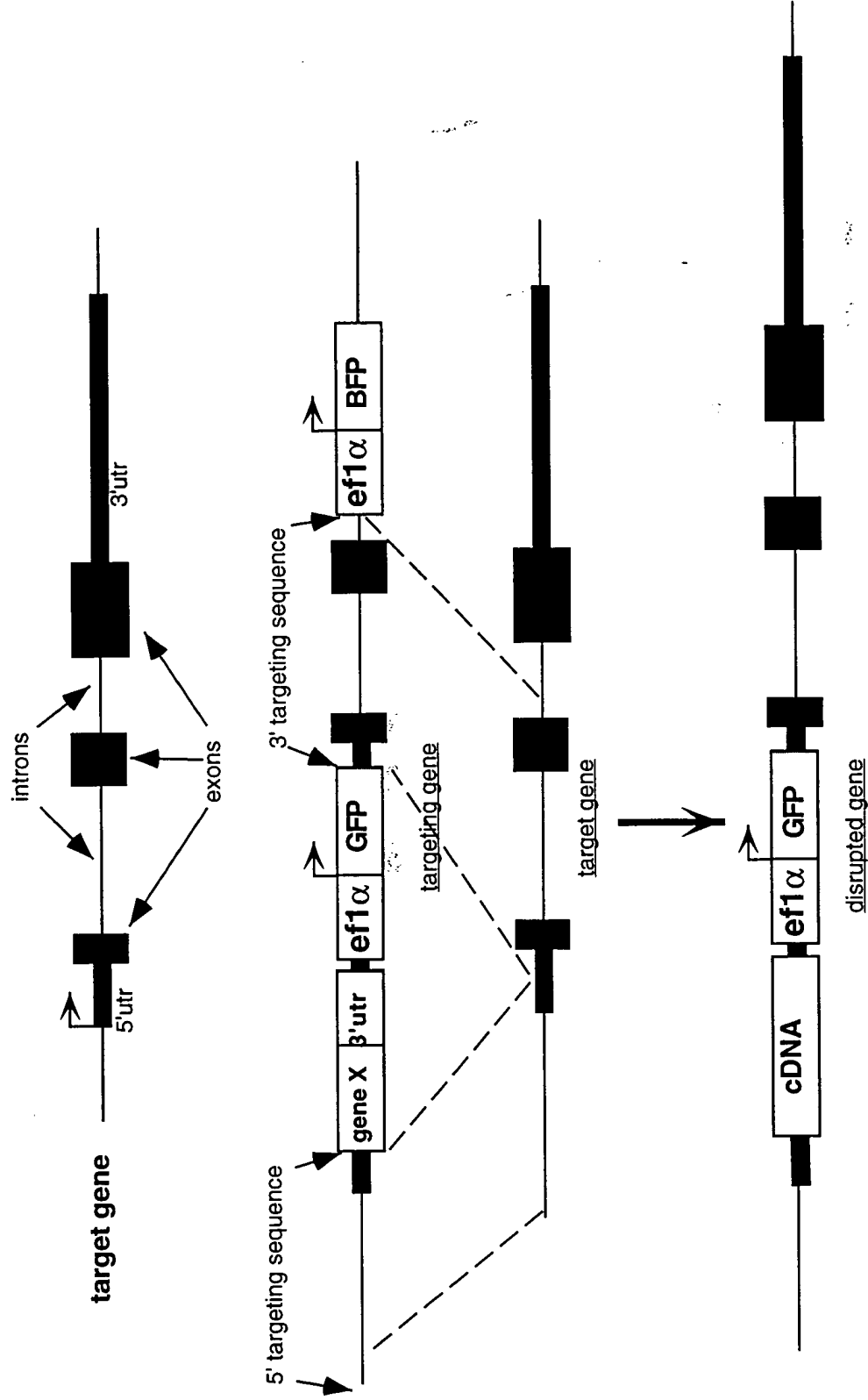


Figure 9.



BFP: gene encoding blue fluorescent protein